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FIG. 1a

5merTcf-SV40-Luc reporter construct (CTL501):

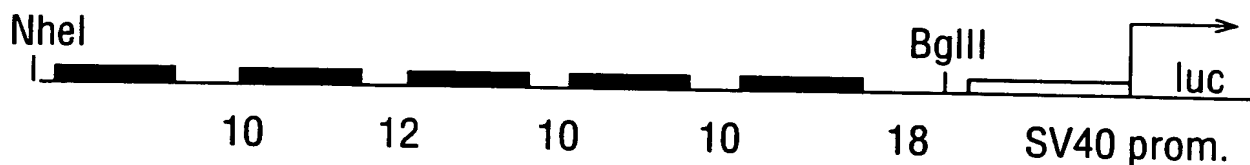


FIG. 1b

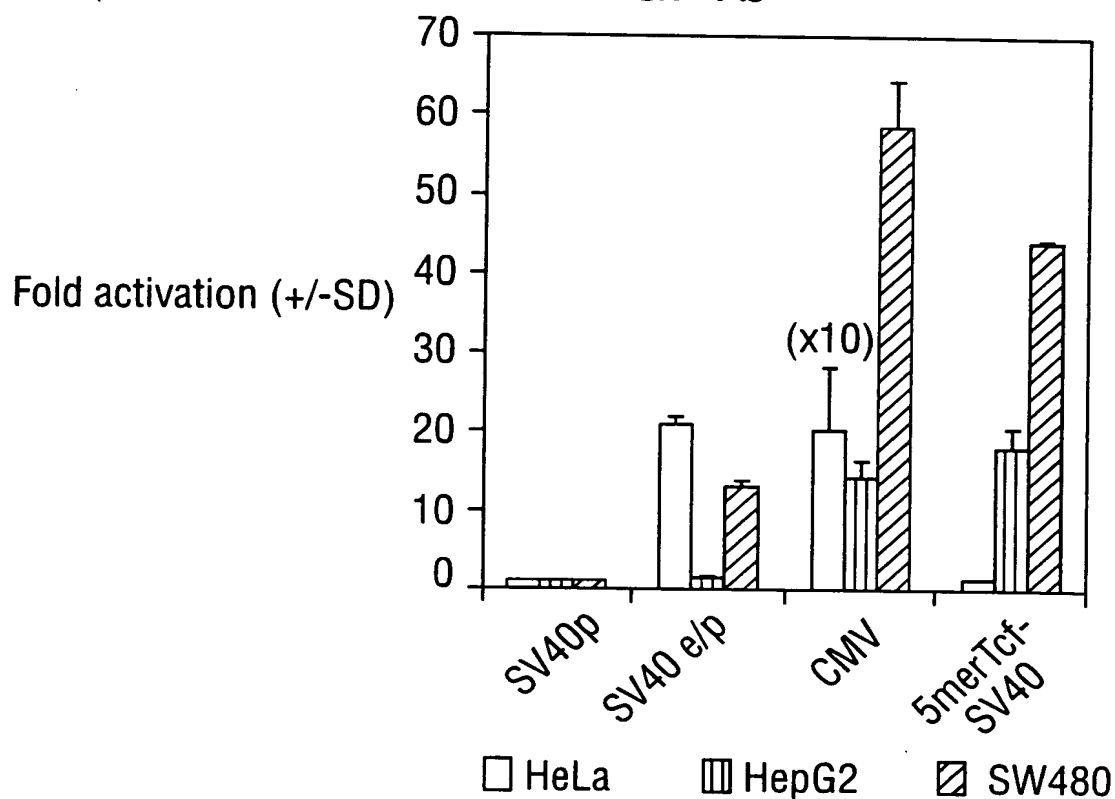


FIG. 1c

5merTcf-SV40 (CTL501) antisense strand

TTGAGATGCAGATCGCAGATCTGATAAAGGTGCATTAGAGATCAAAG
GTAGGACTCTTGATCAAAGGACTGAATTCCTTGATCAAAGGTGCATTAG
AGATCAAAGGCTAGGACTCTTTGATCAAAGGGACTAGTAAGCTTGCTAGC
ACGCGTAAGAGCTCGGTACC

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FIG.2a

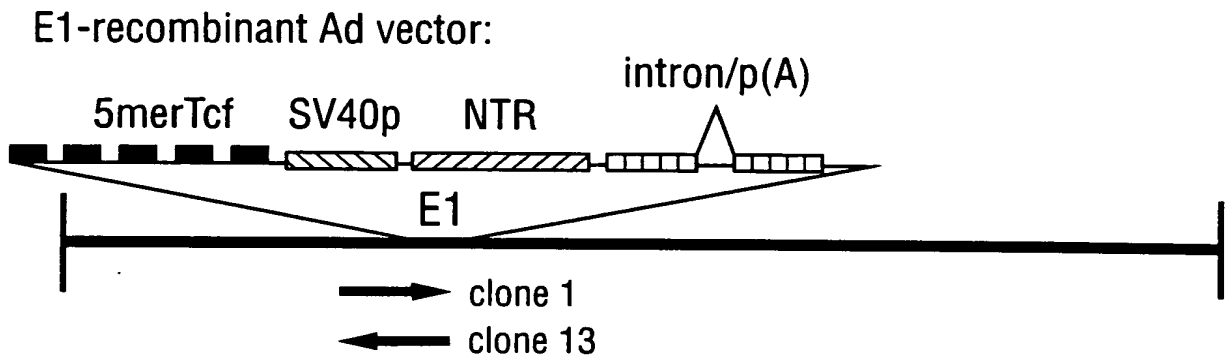


FIG. 2b

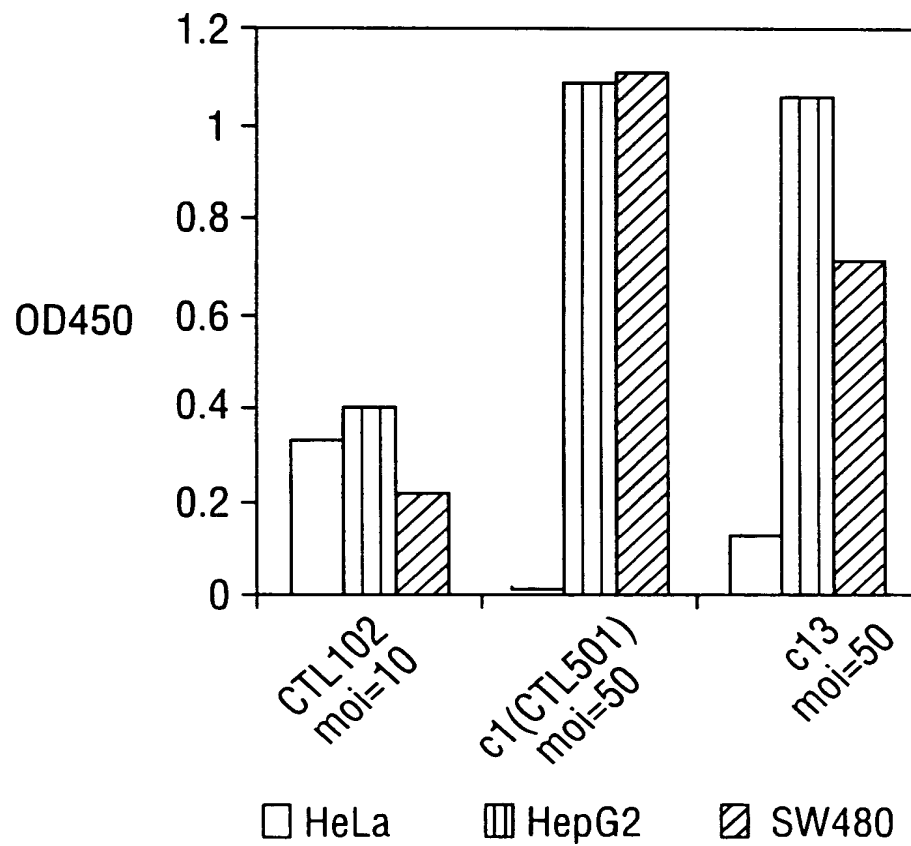


FIG. 3b

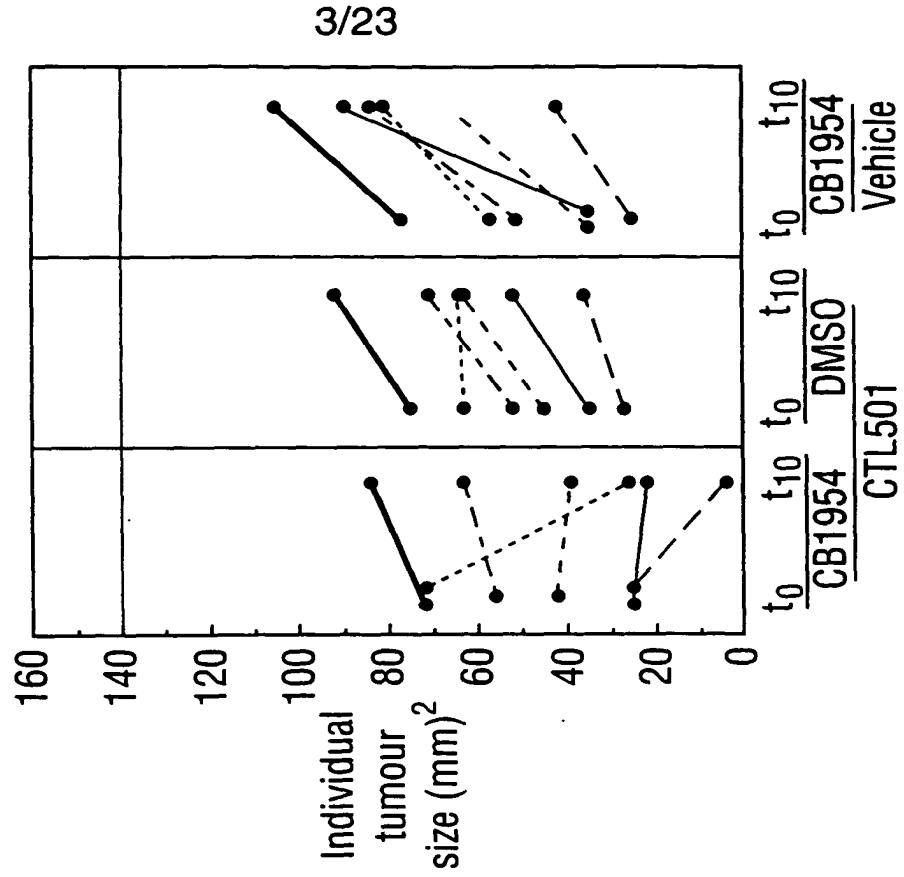
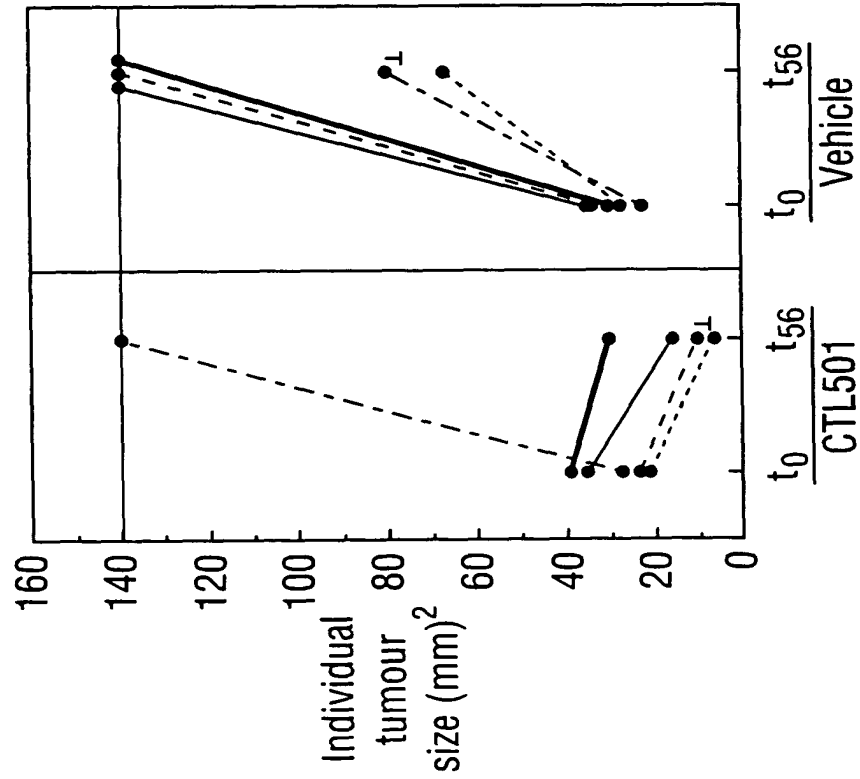


FIG. 3a



Application Serial No.: Not Yet Assigned

Title: GENE EXPRESSION USING T CELL FACTOR RESPONSIVE ELEMENT

Inventor: Lawrence S. Young, Kai S. Lipinski and Christopher J. Wrighton

Docket No. HARR0032-101

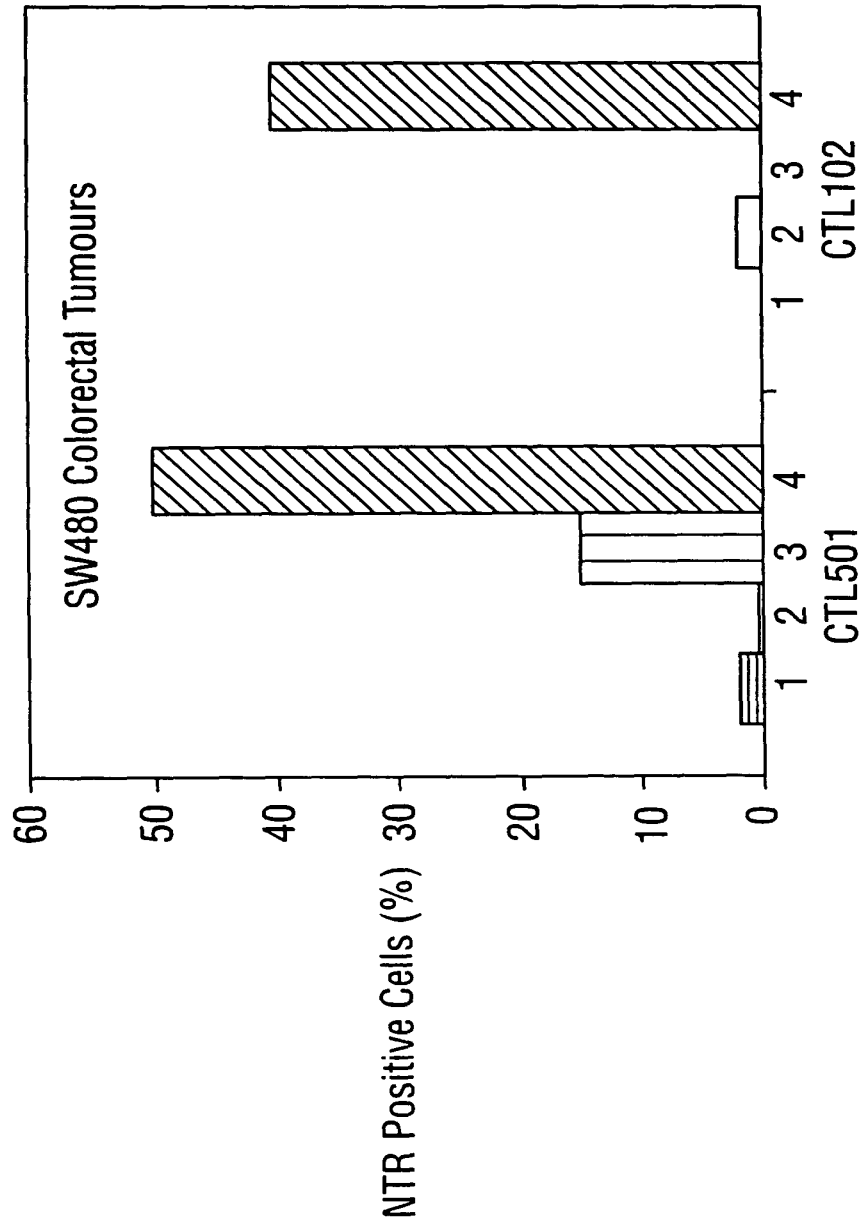
Filed: June 26, 2003

Atty: Doreen Yatko Trujillo

Tel. No. (215) 665-5593

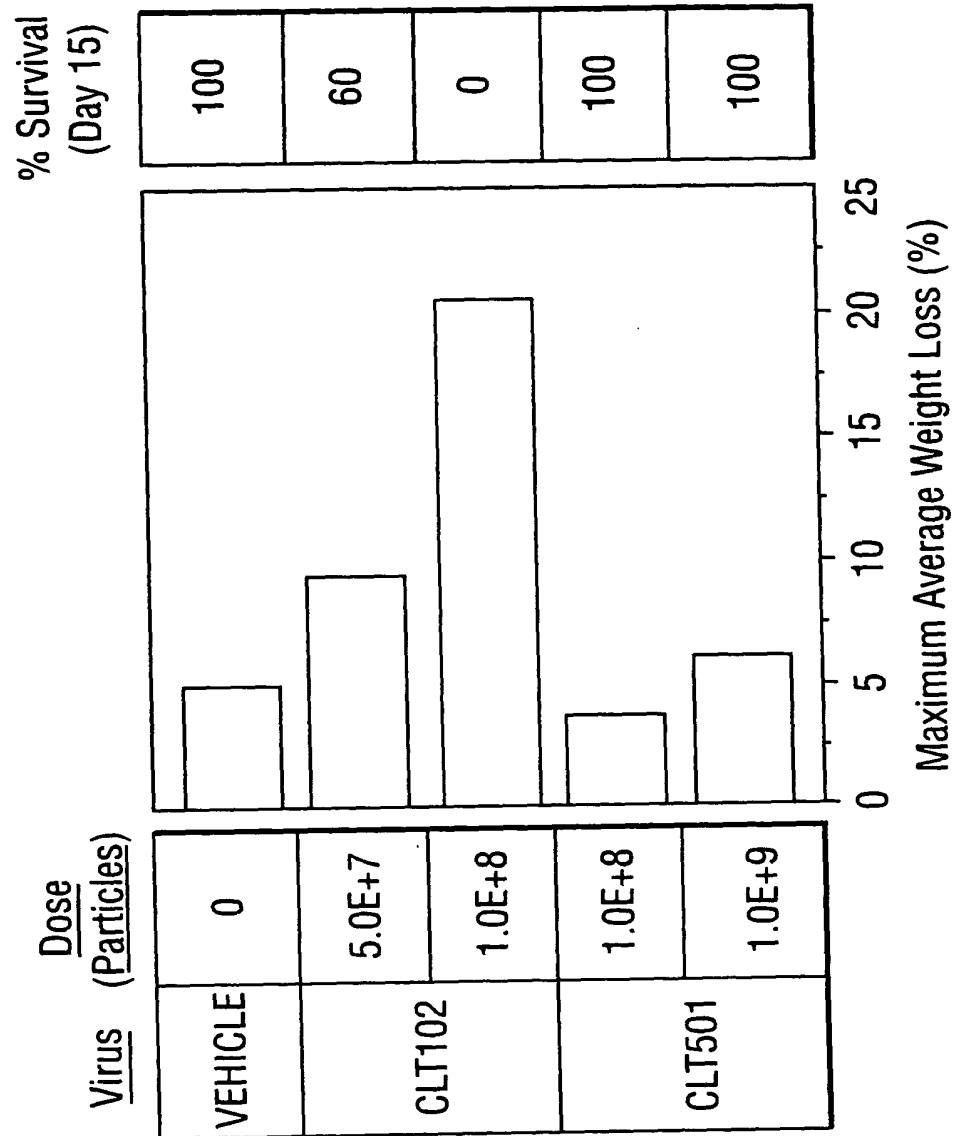
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FIG. 4



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FIG. 5



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FIG. 6a

5merTcf-E1BTATA-Luc reporter construct (CTL502):



FIG. 6b

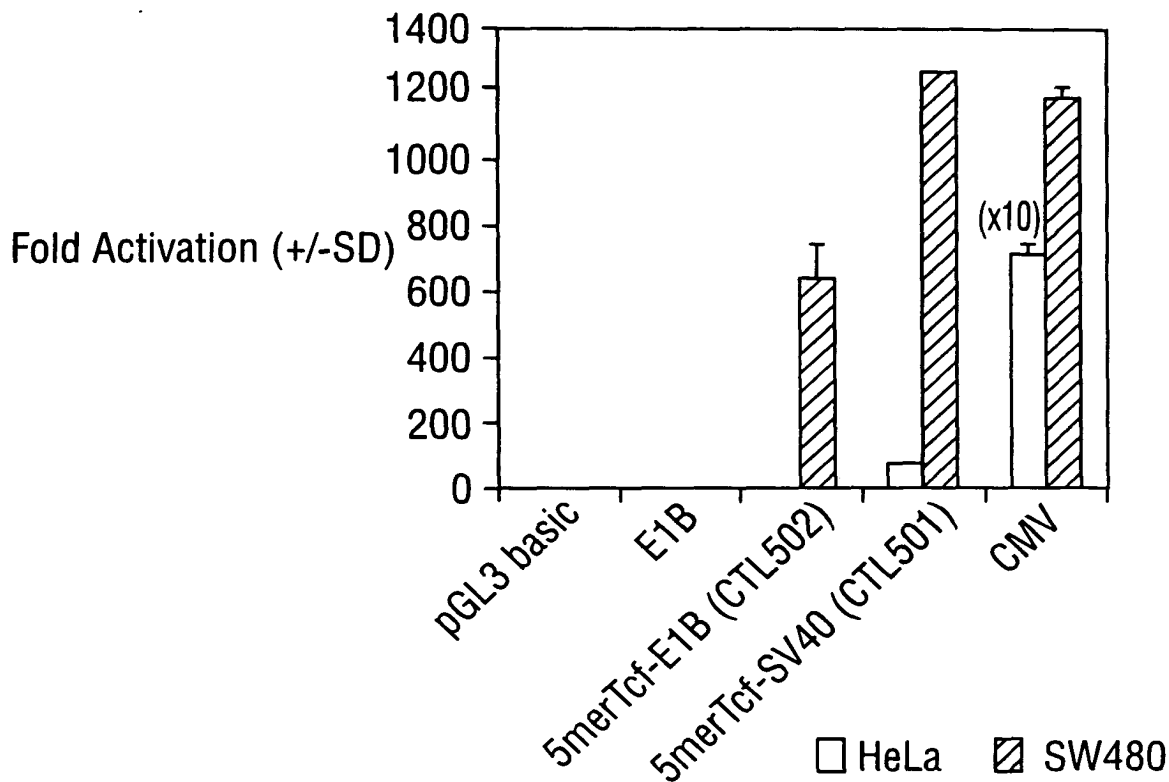
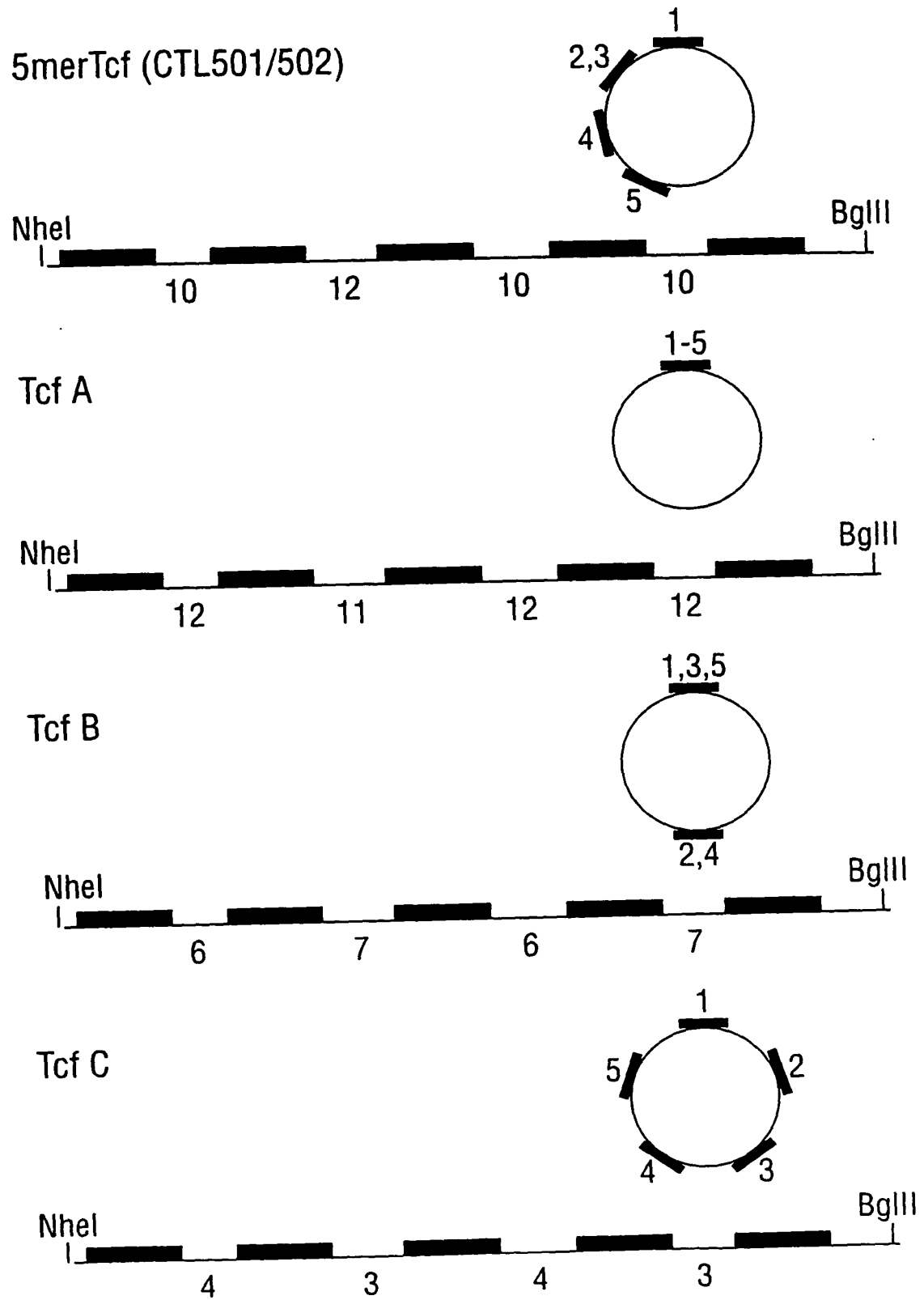


FIG. 6c

E1BTATA clone 2 antisense strand

GGATGCCAAGCTTTTCTAGCTTCCTTAGCTCCTGAAAATCTCGCCAAGCTGA
TGAATTCGAGCTGGCGCATTATATACCCTCTAGAGTCGACGGATCGAGATC
TCGAGCCCGGGCTAGCACGCGTAAGAGCTCGGTACC

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 FIG. 7



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FIG. 8a

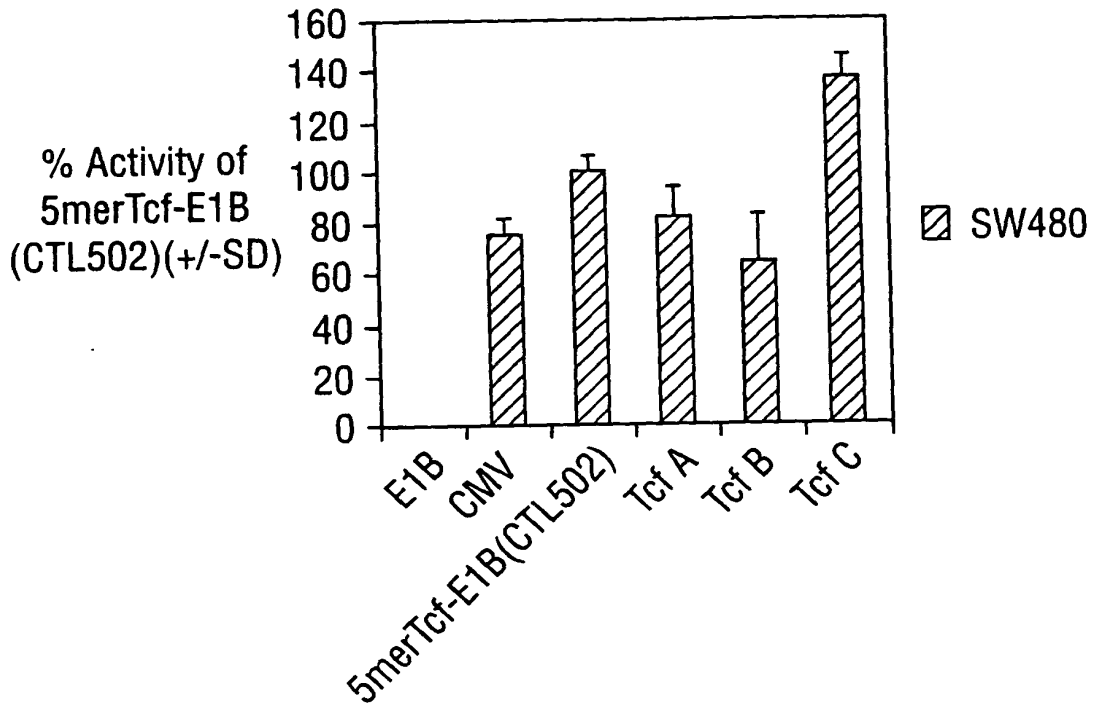
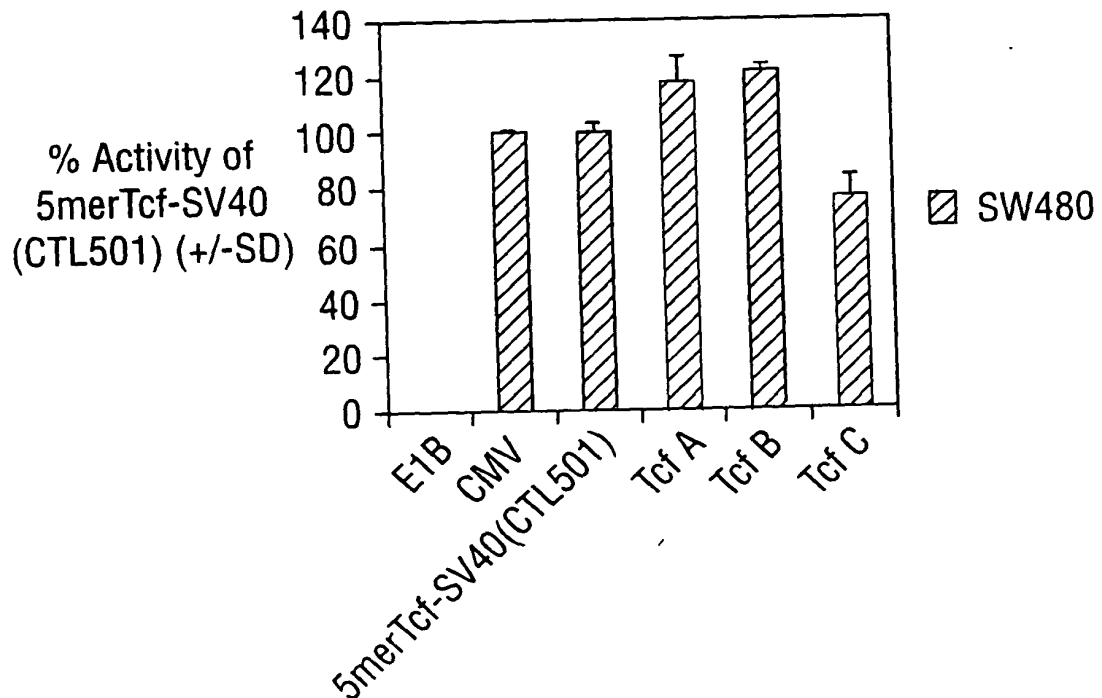
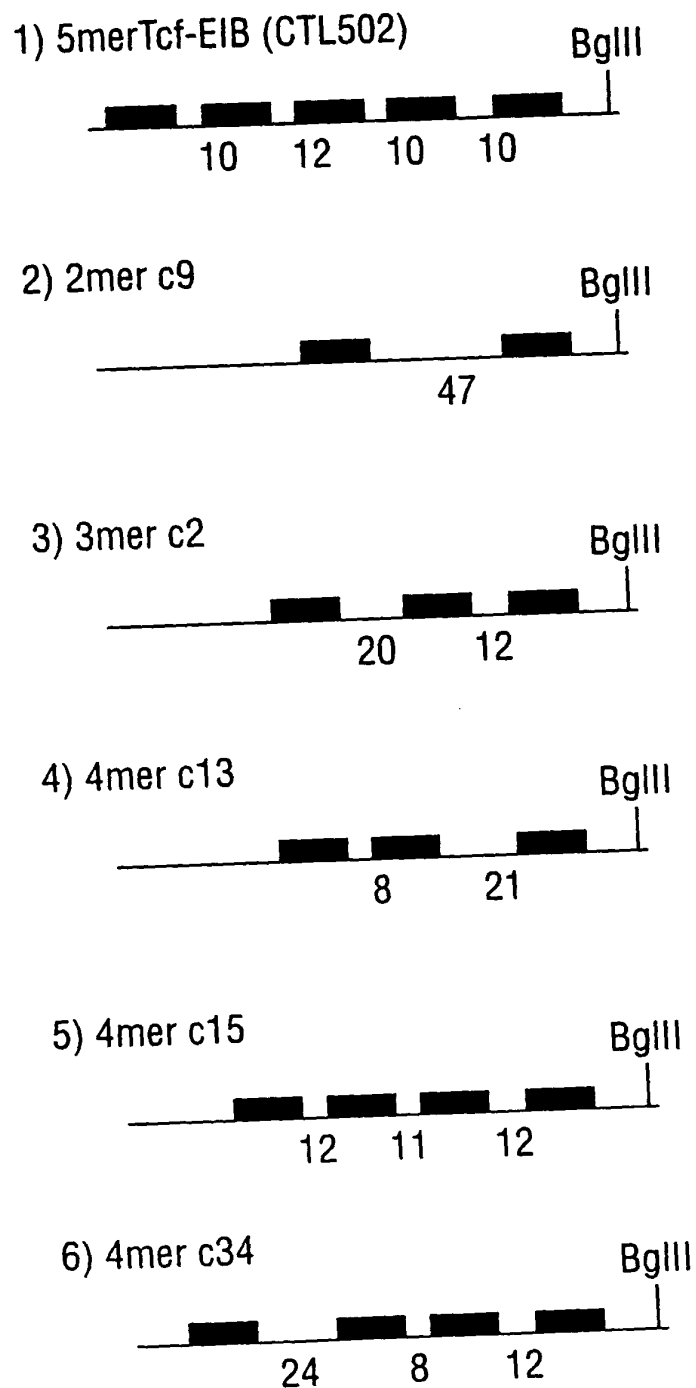


FIG. 8b



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FIG. 9a



Application Serial No.: Not Yet Assigned

Title: GENE EXPRESSION USING T CELL FACTOR RESPONSIVE ELEMENT

Inventor: Lawrence S. Young, Kai S. Lipinski and Christopher J. Wrighton

Docket No. HARR0032-101

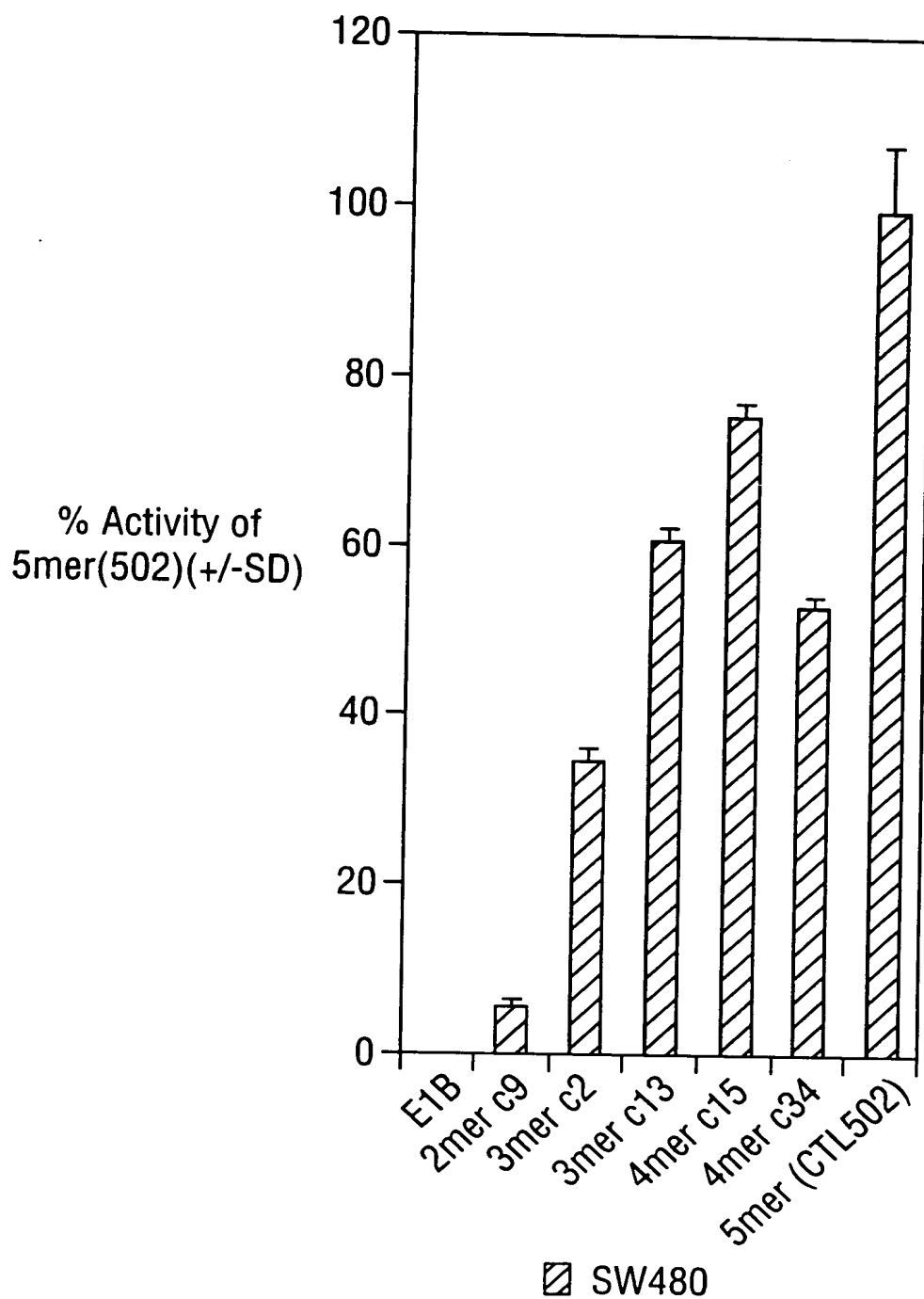
Filed: June 26, 2003

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FIG.9b



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FIG. 9c (i)

2merTcf-E1BTATA clone 9 antisense strand

ATCGAGATCTGATAAAGGTGCATTTAGAGGATCAAAGGTAGGTTACTCTTTG
AATTCAGGTGCAATTTAAAGGTAGGAACTCTTGATCAAAGGACTAGTAAG
CTTGCTAGCACGCGTAAGAGCTCGGTACC

3merTcf-E1BTATA clone 2 antisense strand

ATCGAGATCTGATAAAGGTGCATTTAGAGGATCAAAGGTAGGTTACT
CTTGATCAAAGGACTGAATTCAGGAACTCTTGATCAAAGGACTAGTAAGCT
TGCTAGCACGCGTAAGAGCTCGGTACC

3merTcf-E1BTATA clone 13 antisense strand

ATCGAGATCTGATAAAGGTGCATTTAGAGGATCAAAGGTAGTCACAGGTGC
AATTTAGAGGATCAAAGGTAGGAATTGATCAAAGGATAGTAAGCTTGCTAGC
ACGCGTAAGAGCTCGGTACC

4merTcf-E1BTATA clone 15 antisense strand

ATCGAGATCTGATAAAGGTTCTTGATCAAAGGACTGAATTCCTTGATCAA
GGTGCAATTTAGAGATCAAAGGTAGGAACTCTTGATCAAAGGACTAGTAA
GCTTGCTAGCACGCGTAAGAGCTCGGTACC

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FIG. 9c (ii)

4merTcf-E1BTATA clone 34 antisense strand

ATCGAGATCGATAAAGGTGCATTTAGACGATCAAAGGTAGGTTACTCTTGA .
TCAAAGGAAATTCCTTGATCAAAGGTGCAATTTAGAGAAGGTAGGAACTCT
TGATCAAAGGACTAGTAAGCTTGCTAGCACGCGTAAGAGCTCGGTACC

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FIG.10a

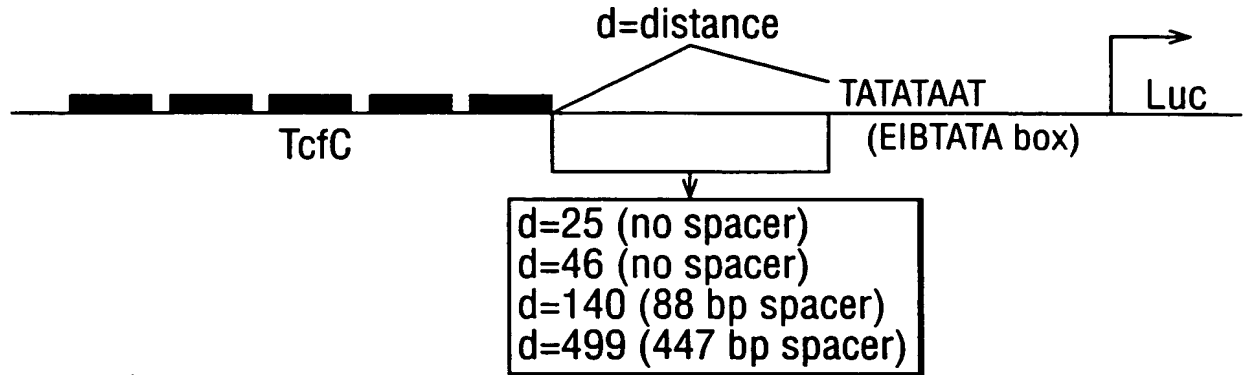


FIG.10b

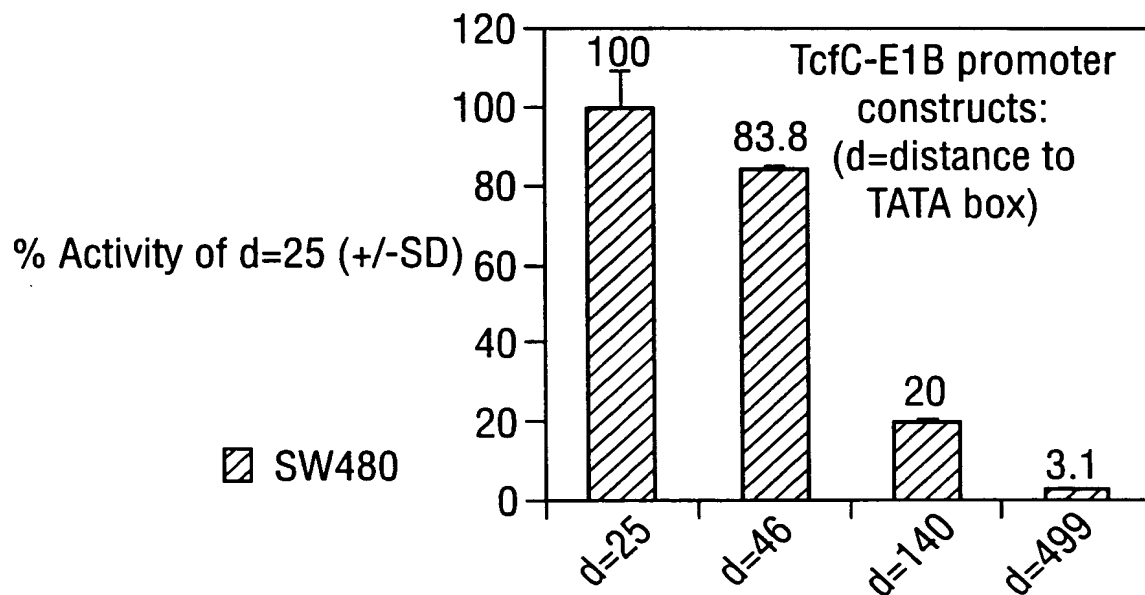


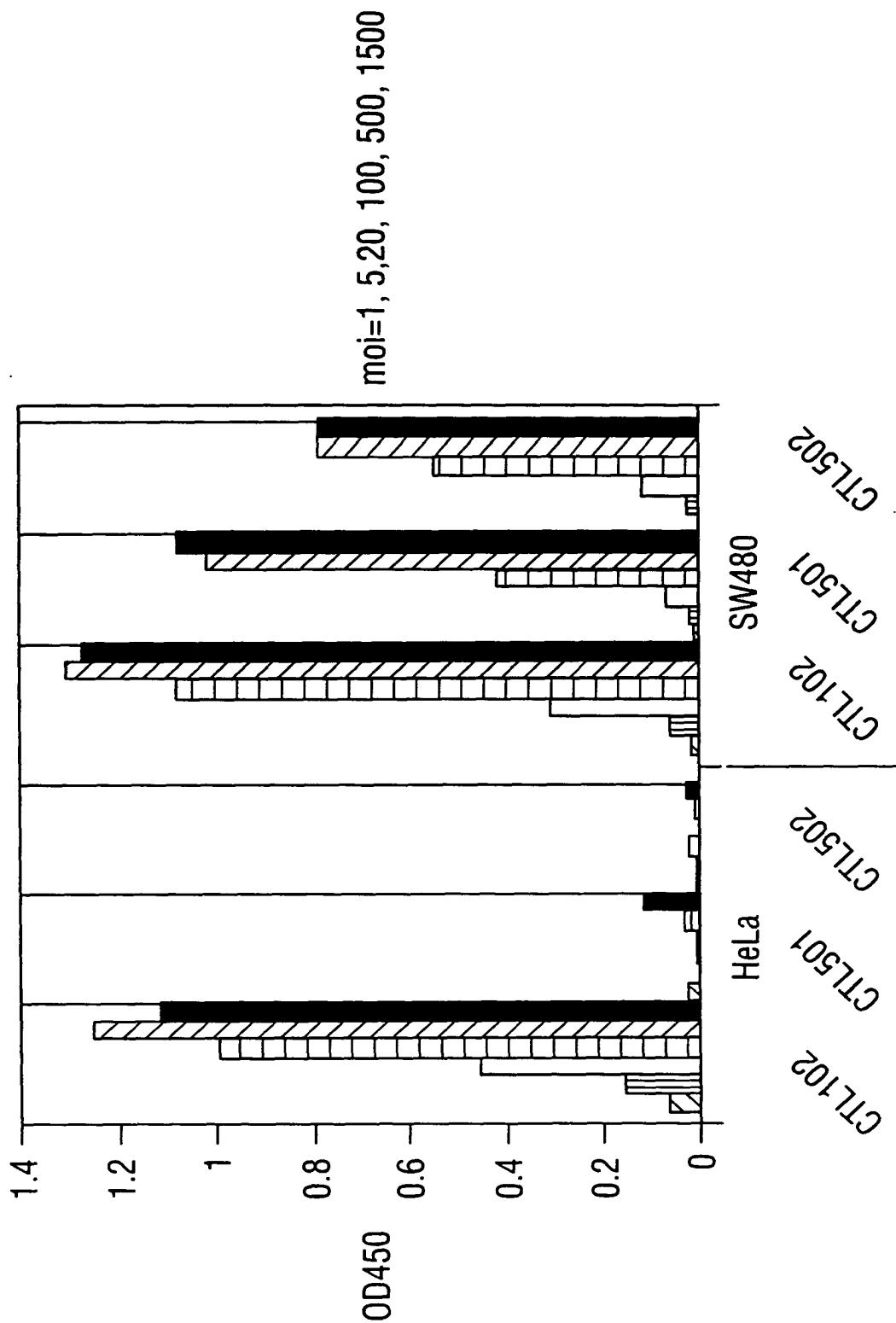
FIG.10c

/TcfC-E1BTATA (d=25) clone 6 antisense strand

TACCAACAGTACCGGAATGCCAAGCTAGCTTTTCTAGCTTCCTTAGCTCCTG
 AAAATCTCGCCAAGCTGATGAATTCGAGCTGGCGCATTATATACCCTCTG
 ATAAAGGTGCATTTAGAGATCAAAGGTATGATCAAAGGACTTGATCAAAGGT
 GAGATCAAAGGTATTGATCAAAGGACTAGAGCTTACTTAGATCGCAGATCTC
 GAGCCCCGGGCTAGCACGCGTAAGAGCTCGGTACCTATCG

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FIG.11



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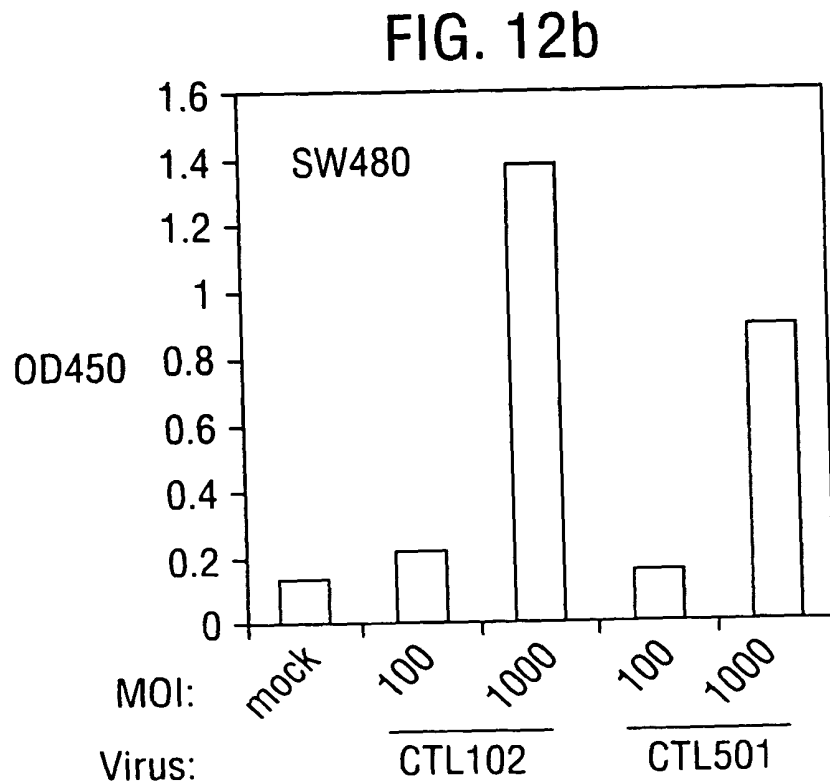
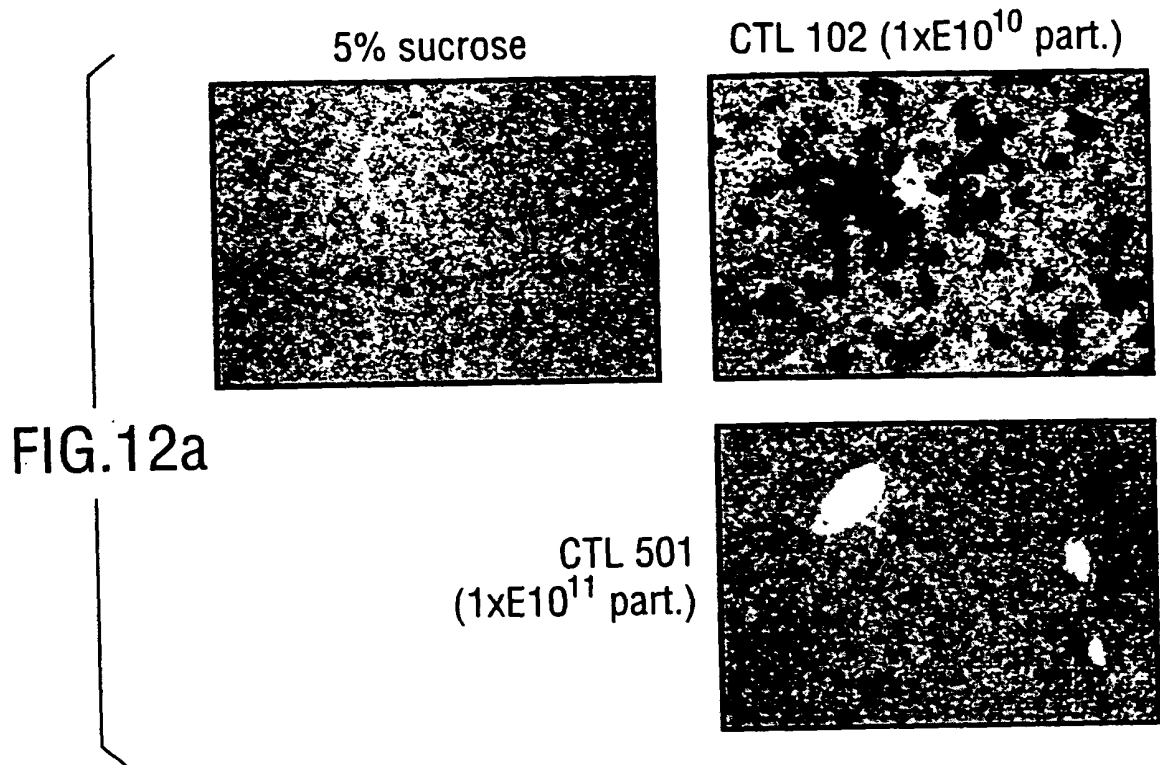
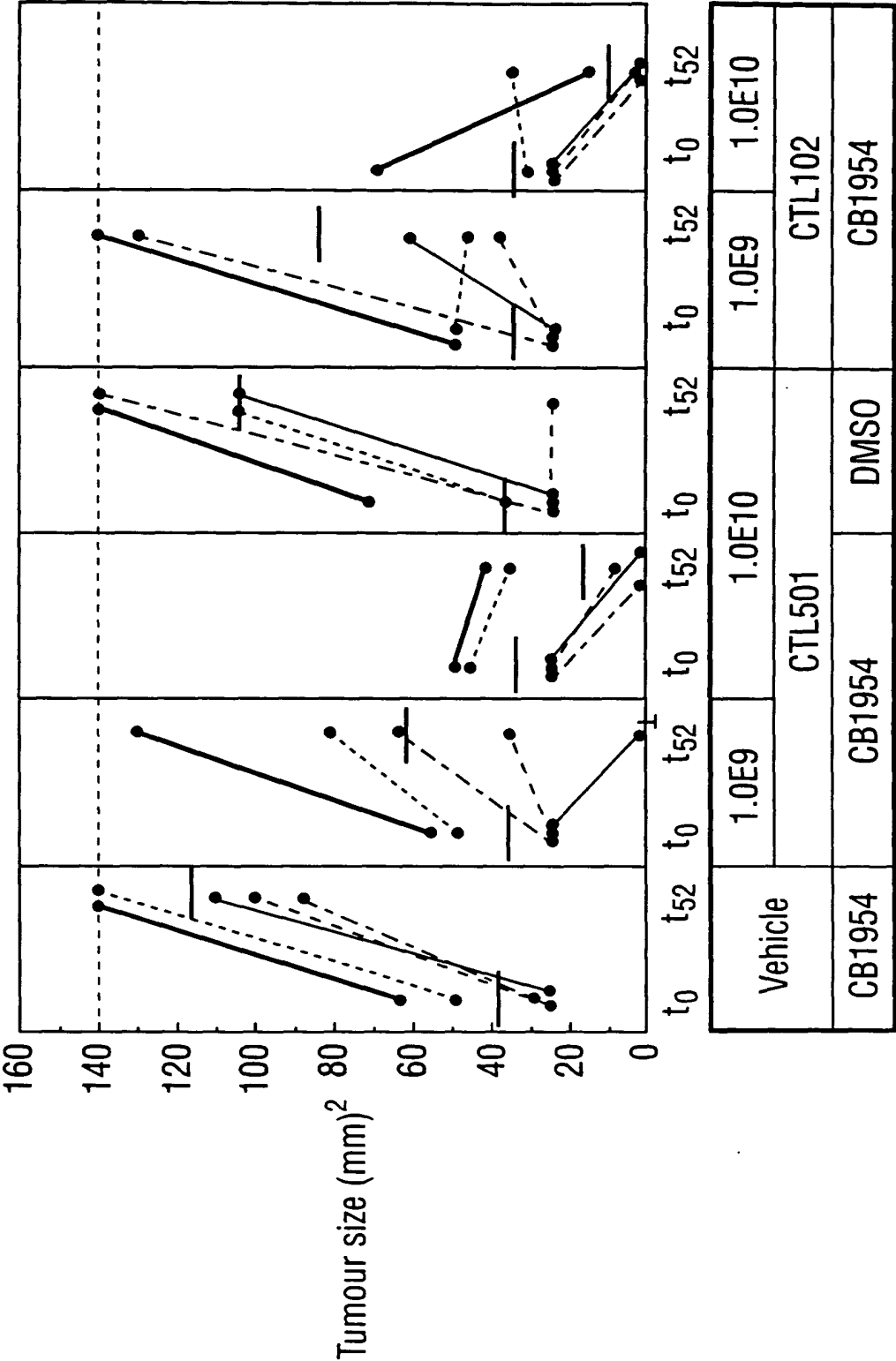
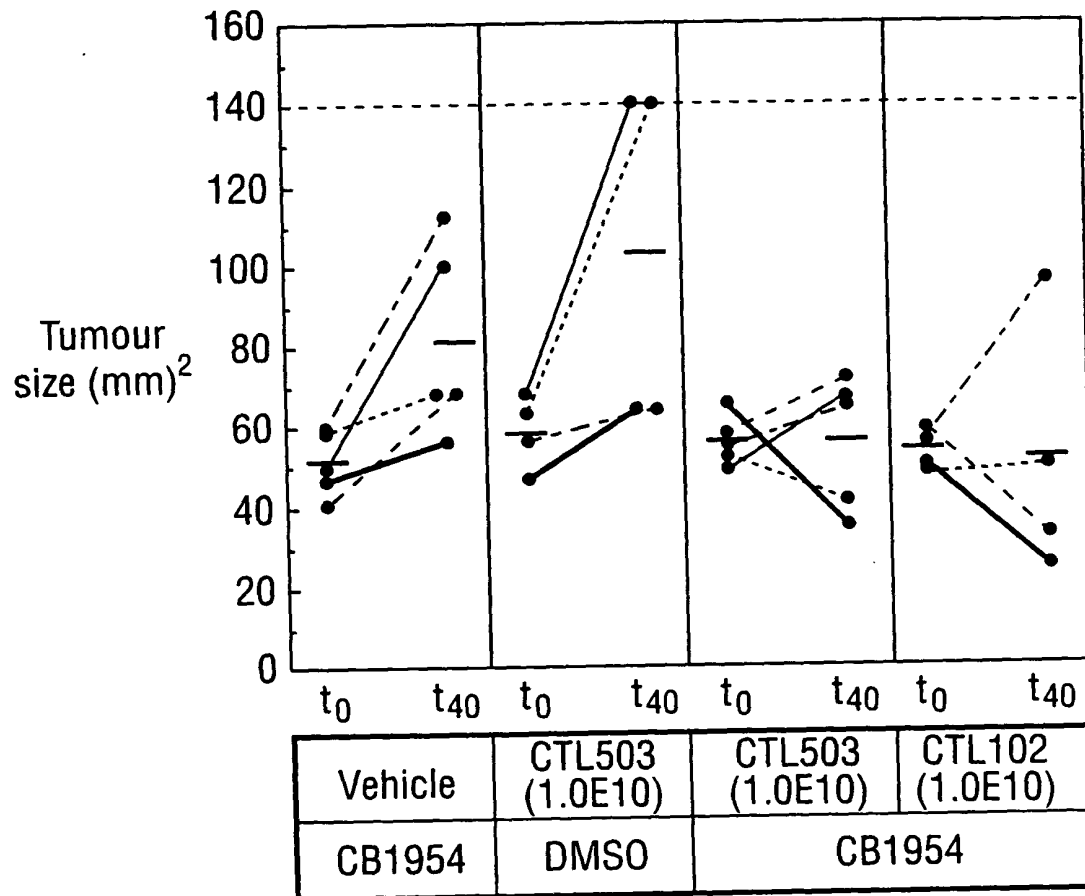


FIG. 13



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FIG. 14



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FIG.15a

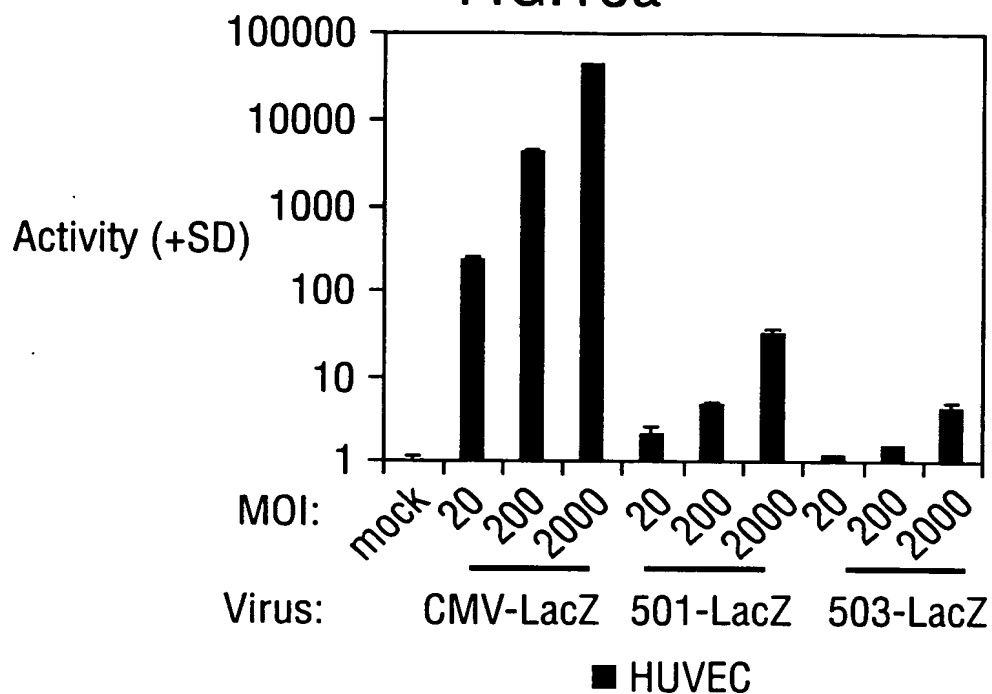
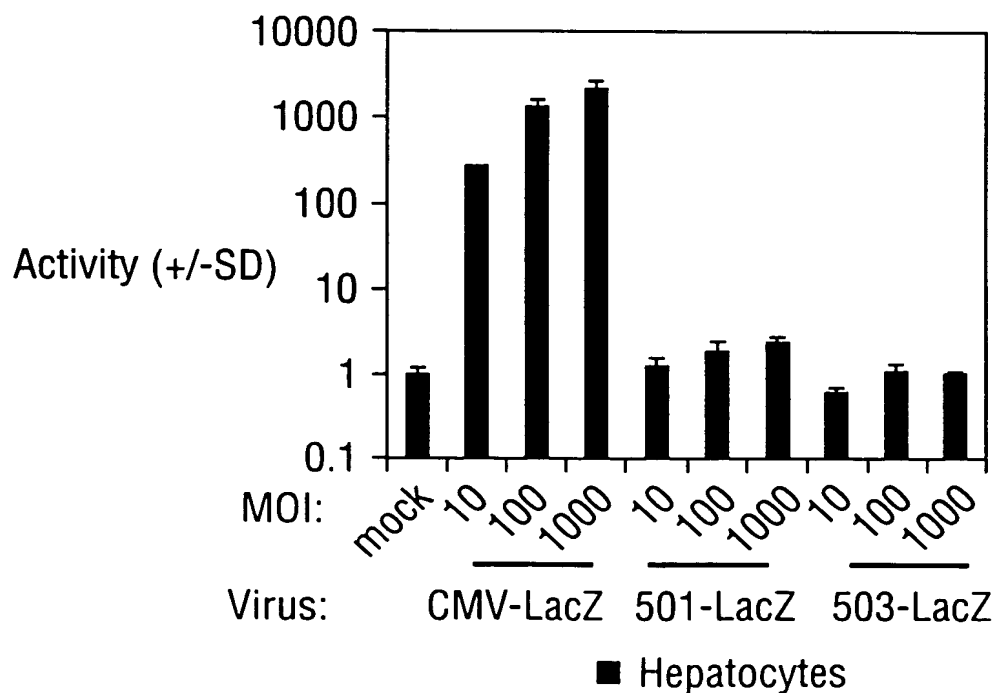
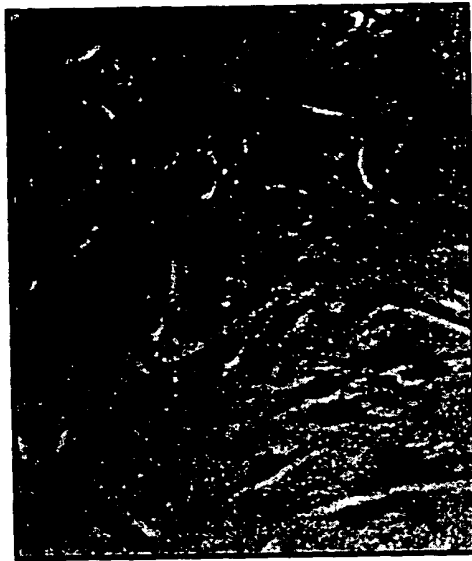


FIG. 15b

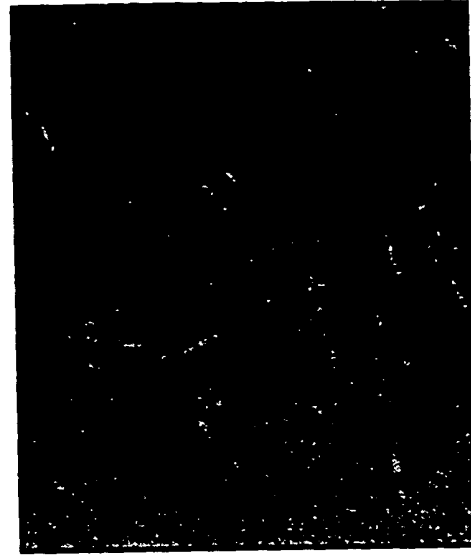


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FIG. 15c - Primary human dermal fibroblasts



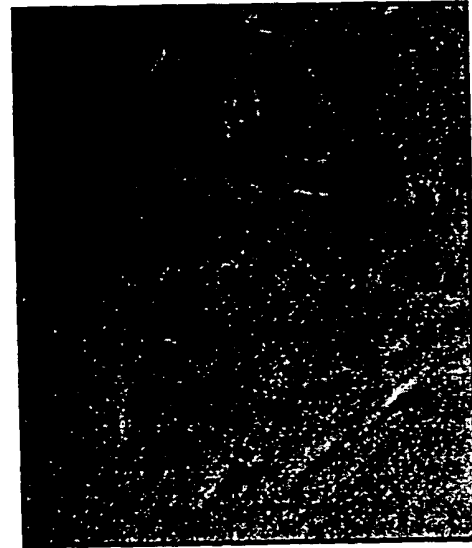
Ad-CMV-nLacZ



Ad.CTP3-nLacZ



Control



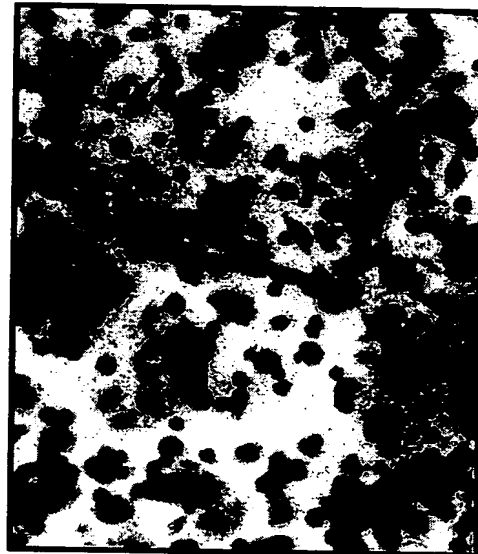
Ad.CTP1-nLacZ

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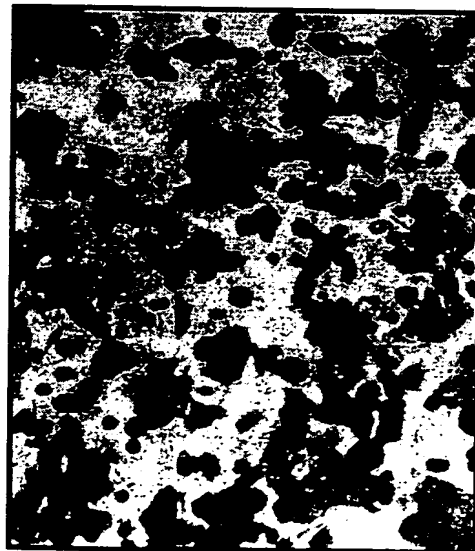
FIG. 15d - SW480 colorectal cancer positive control



Ad.CTP3-nLacZ



Ad.CTP1-nLacZ



Ad-CMV-nLacZ

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FIG.16a

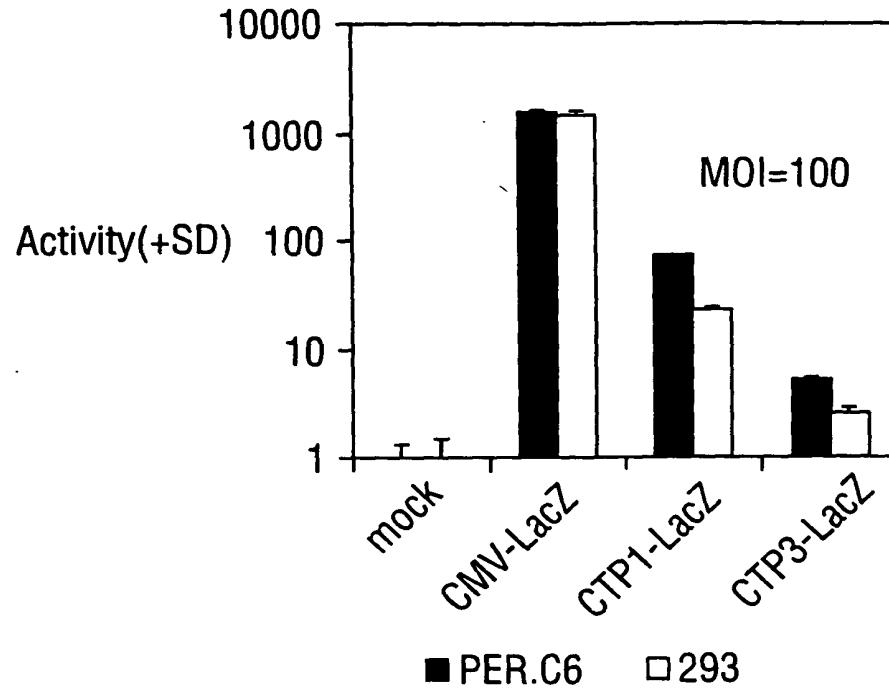
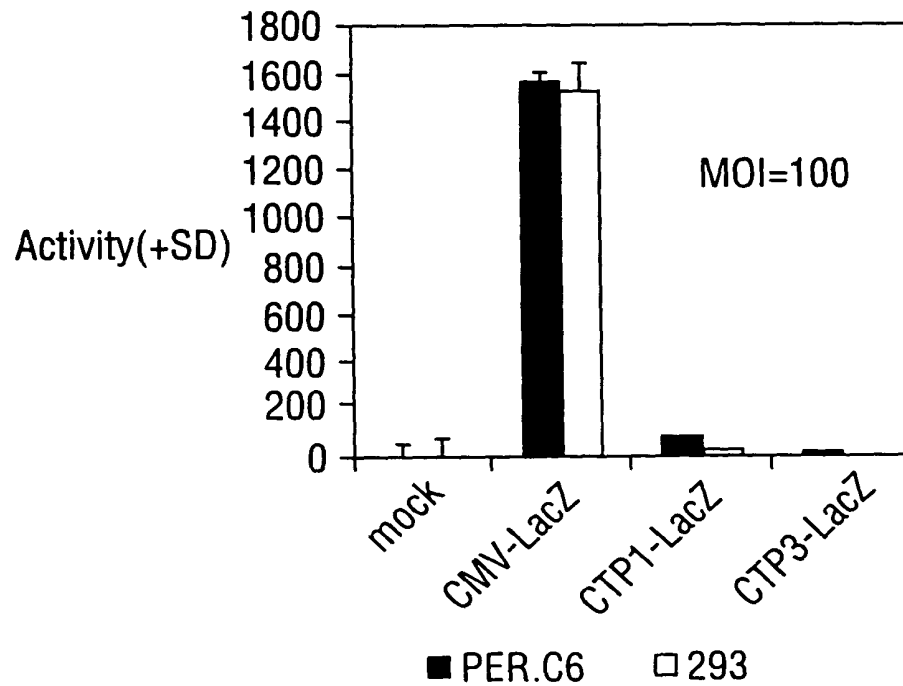
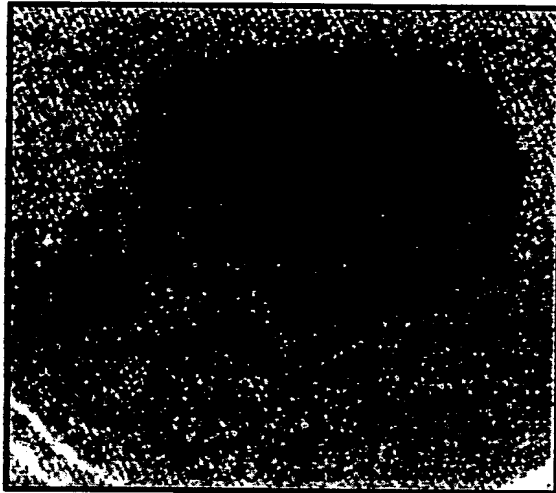


FIG. 16b

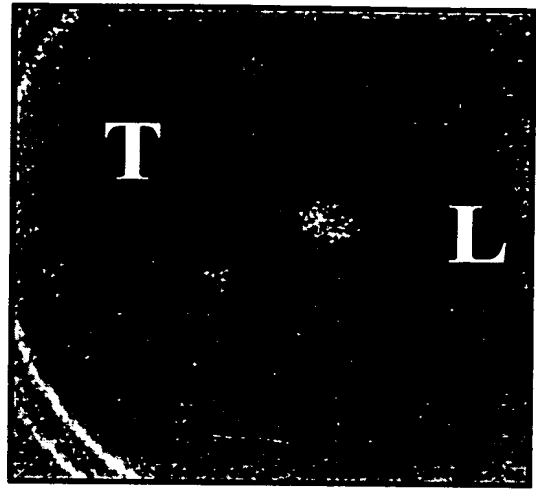


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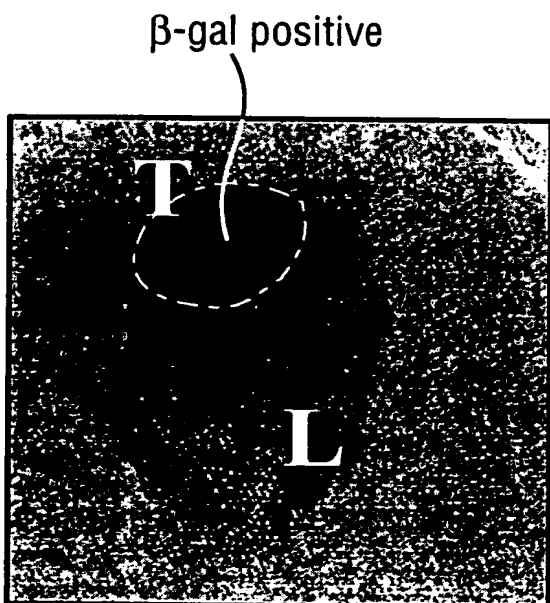
FIG.17



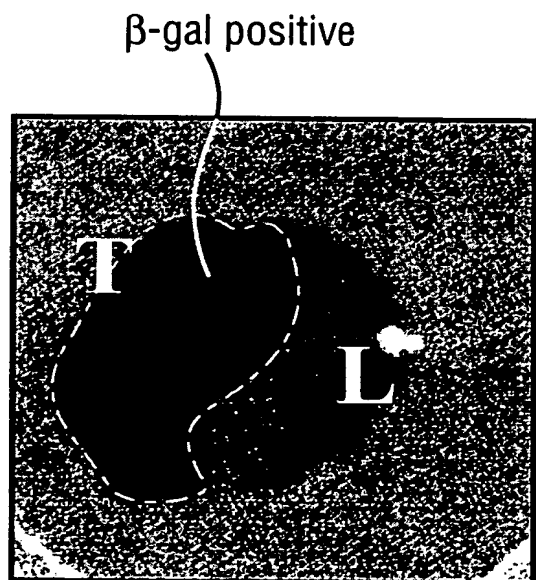
Control



Ad-CMV-nLacZ



CTP1-nLacZ



CTP3-nLacZ

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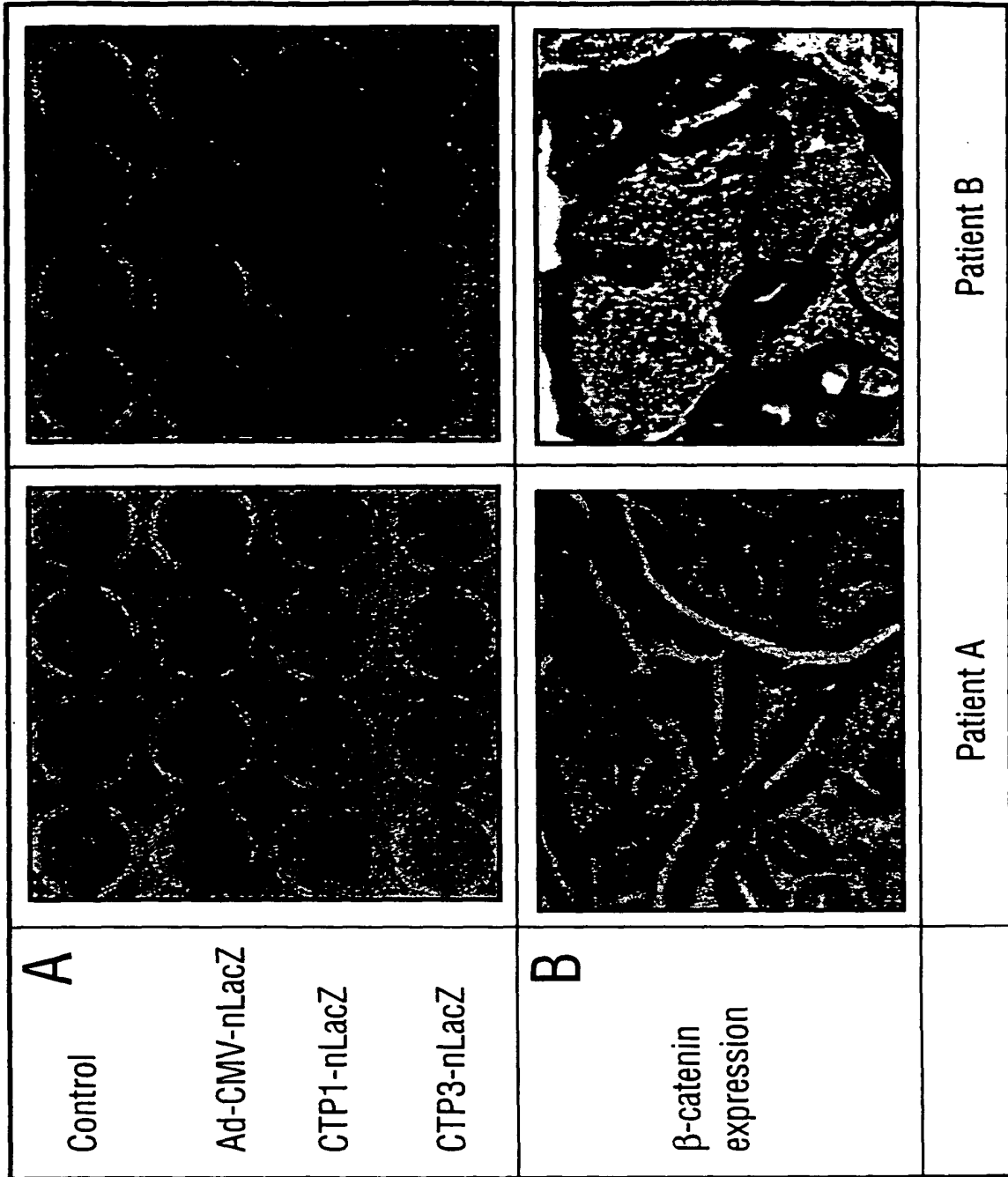


FIG. 18